

EVERETT CITY COUNCIL AGENDA ITEM COVER SHEET

PROJECT TITLE:

Energy Efficiency Contract
with Snohomish County Public
Utilities District for an exterior
lighting upgrade at the South
Police Precinct

_____ Briefing
_____ Proposed Action
_____ Consent
_____ Action
_____ First Reading
_____ Second Reading
_____ Third Reading
_____ Public Hearing

COUNCIL BILL #

Originating Department

Contact Person

Phone Number

FOR AGENDA OF

Facilities

Scott Pattison

425-257-8846

November 9, 2016

Initialed by:

Department Head

CAA

Council President

do
Am

Location

South Precinct, 1121 SE
Everett Mall Way

Preceding Action

Attachments

Contract

Department(s) Approval

Police, Facilities

Amount Budgeted	-0-	
Expenditure Required	\$5,337.50	Account Number(s): 146
Budget Remaining	-0-	
Additional Required	-0-	

DETAILED SUMMARY STATEMENT:

The Facilities Department would like to enter into an energy efficiency rebate contract with Snohomish County Public Utilities District (PUD) for an exterior lighting upgrade at the South Police Precinct. The total project cost of \$11,500.00 will be offset by a PUD rebate of \$6,162.50. The remaining \$5,337.50 will be recovered in avoided energy cost in just over two years.

RECOMMENDATION (Exact action requested of Council):

Authorize the mayor to sign an Energy Efficiency Contract with Snohomish County Public Utilities District for an exterior lighting upgrade at the South Police Precinct in the amount of \$5,337.50.



Participation Agreement

For Energy Efficiency Projects in Commercial & Industrial Facilities

PUD Project ID: L5285

PUD File ID: 535

PUD Staff: Jim Conlan

Using energy wisely is an easy way to reduce your operating expenses.

Facility & Project Information

Project Name	Facility Name	Facility Address
Police So Precinct Ext Lighting	City of Everett Police South Precinct	1121 SE Everett Mall Way, Everett, WA 98201

Important Dates

Complete/Sign This Form By:

10/15/16

Work Must Be Completed By:

12/15/16

Agreement Expires On:

12/31/16

Energy Efficiency Project(s)	Est. Annual Energy Savings	Project Cost	Cost Type	PUD Incentive
Lighting Retrofit Project*	32,311 kWh/Yr	\$11,500.00	Total	\$4,930.00
* Please see attached Worksheets for Details		25% Exterior Lighting Bonus:		\$1,232.50
		Total w/Bonus:		\$6,162.50

Project Verification

(Please select Verification Type)

PUD Approval

Project Payment (PLEASE select one option below. If funds are assigned to an Alternate Payee, Customer must Initial below)

☒ Customer Receives PUD Rebate / Incentive Funding

City of Everett

Customer's Business Name (Must Match W-9)

Mailing Address for Incentive Funding
(if different than W-9 address)

Street Address

City State Zip Code

☐ Customer Assigns PUD Rebate / Incentive Funding (payment made to Alternate Payee - Contractor, Vendor, etc.)

Alt. Payee's Business Name (Must Match W-9)

OR

Assignment of Funds Agreement (if applicable)

Public Utility District No. 1 of Snohomish County ("PUD") is hereby authorized to pay the Alternate Payee, in the name of the Assignor (PUD Customer, Facility Owner, Owner's Rep.), the incentive payment due the Assignor for the project at the Facility identified above. I understand the Business Names entered must be identical to the information on the W-9 forms. I understand that I will be responsible to pay any additional balance due directly to the Alternate Payee. I understand that initialing this Assignment of Funds Agreement is entirely optional and will not affect my ability to participate in PUD Energy Efficiency Programs.

Customer Initial

Terms & Conditions

The Participant ("Customer") hereby applies for incentive payment from Public Utility District No. 1 of Snohomish County ("PUD") under its Commercial and Industrial Energy Efficiency Programs. Incentive payment will be made when the project satisfies the PUD's requirements. PUD reserves the right to change and/or terminate the program at any time.

The Customer:

- Certifies that project documentation used in developing this project accurately reflects existing conditions and project scope.
- Understands that projected energy and cost savings are estimates.
- Understands that the incentive payment will not exceed 100% of the actual total project cost.
- Will seek PUD approval prior to changes that may affect the savings and incentive amount. Any changes to incentive amounts are subject to available funding.
- Assumes full responsibility for equipment selection and installation, project management and payment of contractors and/or suppliers.
- Assumes full responsibility for the equipment to be disposed of and installed in accordance with all applicable federal, state and local laws, building codes and permitting requirements.
- Is responsible for payment of any federal, state or local taxes and any tax liability associated with Customer's receipt of PUD's incentive payment.
- Understands that the PUD will not be responsible for any income tax that may be imposed on the Customer as a result of the receipt of incentive payments.
- Agrees to provide all information required by PUD to evaluate and verify whether project complies with and meets PUD incentive payment requirements.
- Understands that the PUD may, during reasonable hours, verify the project at the site identified on this agreement before, during and/or after the installation of equipment for the sole purpose of verifying compliance with the performance obligations required by the PUD's Programs. The limited scope and purpose of any PUD verification is not intended to discover or report any defects, code violations or hazards of any kind. For that reason, the Customer should carefully inspect the performance of any equipment supplier and any contractor and/or request inspection by appropriate governmental agencies.
- Agrees to defend, indemnify and hold harmless PUD and its officials, officers, employees and agents from and against any and all losses, liabilities, damages, costs, expenses (including attorney's fees and expenses), claims, or judgments (individually and collectively referred to as "Claims") arising out of or in connection with Customer's participation in this program, but nothing herein shall require Participant to indemnify PUD for that portion of any such Claims attributable to the negligent acts or omissions of PUD and its officials, officers, employees and agents.

By signing below, I certify that I have read, understand, and agree to the terms and conditions above.

Authorized Signature

Date

Print Name

Title



Lighting Input Form

For Energy Efficiency Projects in Commercial & Industrial Facilities

Using energy wisely is an easy way to reduce your operating expenses.

Date: 09/26/16

PUD Project ID: L5285

PUD File ID: 535

PUD Staff: Jim Conlan

Form Completed By: Pattison

City of Everett Police South Precinct

1121 SE Everett Mall Way, Everett, WA 98201

Facility Type: Local Government

Facility Sq Ft: 45,420

Light Fixture Input

Line #	Location (Area/Room)	Heat Source	Hrs/Yr		Lighting Technology	Fixture Type	# of Fixtures	# of Lamps / Fixture	Lamp Wattage	Ballast Type	Watts / Fixture	Description / Notes (ID, Fixture, Ballast, Lamp Model #)	Product Listed?	Retrofit Type	Rebate / (Fixt.) or (Lamp)	Maximum Rebate Amount
1	Exterior	None	4,380	Exist:	High Pressure Sodium	Pole	26	1	250W	Mag	295.0	HPS 250	LDL	L-HID	\$145/ea (Fixt.)	\$3,770
				Prop:	LED Lamp	Pole	26	1	80.2W		80.2	LED 8089M50				
2	Exterior	None	4,380	Exist:	High Pressure Sodium	Pole	8	1	100W	Mag	120.0	HPS 100	LDL	L-HID	\$48/ea (Fixt.)	\$384
				Prop:	LED Lamp	Pole	8	1	44.4W		44.4	LED 8024E42				
3	Exterior	None	4,380	Exist:	High Pressure Sodium	Pole	4	1	150W	Mag	170.0	HPS 150	LDL	L-HID	\$81/ea (Fixt.)	\$324
				Prop:	LED Lamp	Pole	4	1	44.4W		44.4	LED 8024E42				
4	Exterior	None	4,380	Exist:	High Pressure Sodium	Pole	2	1	400W	Mag	457.0	HPS 400	LDL	L-HID	\$226/ea (Fixt.)	\$452
				Prop:	LED Lamp	Pole	2	1	114.5W		114.5	LED 8090M50				
Total:																\$4,930

Lighting Controls Input

Line #	(From Table Above)	Fixture Input Line #	Control Type	% Hours Reduced	# of Fixtures Controlled	# of Fixtures Remaining (Non-Controlled)	Wattage Controlled / Fixture	Description / Notes (Other Control Type, Explanation of % Reduction)	Controls Rebate / Fixture	Controls Rebate Amount
A	Fixture Input Line# →									
B	Fixture Input Line# →									
C	Fixture Input Line# →									
Total:										

Cost Information:

Fixture Material Cost	Labor Cost	Misc. Cost (permit, etc.)	Subtotal	Tax Rate	Total Installed Cost	or	Total Bid Cost (incl. sales tax)
\$7,500.00	\$4,000.00		\$11,500.00		\$11,500.00		

Notes:



Lighting Retrofit Summary

For Energy Efficiency Projects in Commercial & Industrial Facilities

Using energy wisely is an easy way to reduce your operating expenses.

Date: 09/26/16
PUD Project ID: L5285
PUD File ID: 535
PUD Staff: Jim Conlan
Form Completed By: Pattison

City of Everett Police South Precinct

1121 SE Everett Mall Way, Everett, WA 98201

Facility Type: Local Government

Facility Sq Ft: 45,420

Estimated Electrical Energy Use & Proposed Savings

Existing Energy Use:	44,781 kWh/Yr
Savings from Lighting Retrofit:	32,311 kWh/Yr
Savings from Lighting Controls Upgrade:	
Total Electrical Energy Savings:	32,311 kWh/Yr
Proposed Energy Use:	12,470 kWh/Yr
% Savings:	72%
Electrical Demand / Load Reduction:	7.38 kW

Project Cost & Rebate

Total Installed Cost:	\$11,500.00
Cost Type:	Total
Average Installed Cost per Fixture:	\$287.50
Lighting Retrofit Rebate Amount:	\$4,930.00
Lighting Controls Upgrade Rebate Amount:	
Project Rebate Amount:	\$4,930.00
Rebate as a % of Total Installed Cost:	43%
Average Rebate Amount per Fixture:	\$123.25
Rebate Amount per kWh	\$0.15 / kWh

Customer's Project Economic Analysis

Cost per kWh (Elec. Demand):	\$0.08 / kWh (\$4.50 / kW)
Est. Annual Electrical Cost Savings:	\$3,016
Customer's Net Cost:	\$6,570
Simple Payback (w/out Rebate):	3.8 Years
Return on Investment (ROI) (w/out Rebate):	26%
Simple Payback (w/ Rebate):	2.2 Years
Return on Investment (ROI) (w/ Rebate):	46%

Project Lighting Controls Summary Table

	# of Fixtures Controlled	kW Load Controlled	kWh/Yr. Savings	Max Rebate Amount
Lighting Controls				
All Controlled Wattage Ranges				
Total				

Project Retrofit Summary Table

	# of Exist. Fixtures	# of Prop. Fixtures	kW Reduction	kWh/Yr. Savings	Max Rebate Amount
E, HID Lighting					
100W HPS → (1L) 44.4W LED Lamp	8	8	0.6	2,649	\$384
150W HPS → (1L) 44.4W LED Lamp	4	4	0.5	2,201	\$324
250W HPS → (1L) 80W LED Lamp	26	26	5.6	24,484	\$3,770
400W HPS → (1L) 120W LED Lamp	2	2	0.7	2,952	\$452
Total	40	40	7.4	32,286	\$4,930



Lighting Retrofit Worksheet

For Energy Efficiency Projects in Commercial & Industrial Facilities

Using energy wisely is an easy way to reduce your operating expenses.

Date: 09/26/16

PUD Project ID: L5285

PUD File ID: 535

PUD Staff: Jim Conlan

Form Completed By: Pattison

City of Everett Police South Precinct

1121 SE Everett Mall Way, Everett, WA 98201

Facility Type: Local Government

Facility Sq Ft: 45,420

Light Fixture Rebate Data & Calculations

											Customer Savings (Installed Wattage vs. Proposed)											
Line #	Heat Source	Hrs/Yr	(E) # of Fixtures	(P) # of Fixtures	Product Listed?	Retrofit Description	Retrofit Type	% Reduction for Burnouts	Wattage Reduction / Fixture	Wattage Reduction / Lamp	kW (Load) Reduction	(E) kWh/Yr (Use)	(P) kWh/Yr (Use)	kWh/Yr Savings	HVAC Adjusted kWh/Yr Savings	Qty	Rebate Lookup Code	Rebate / (Fixt.) or (Lamp)	Qty	Remove Lookup Code	Maximum Rebate Amount	
1	None	4,380	26	26	LDL	HPS to LEDL	L-HID	8%	215	-	5.58	33,595	9,133	24,461	24,461	26	HL5T2A	\$145/ea (Fixt.)	-		\$3,770	
2	None	4,380	8	8	LDL	HPS to LEDL	L-HID		76	-	0.60	4,205	1,556	2,649	2,649	8	HL2T2A	\$48/ea (Fixt.)	-		\$384	
3	None	4,380	4	4	LDL	HPS to LEDL	L-HID		126	-	0.50	2,978	778	2,201	2,201	4	HL3T2A	\$81/ea (Fixt.)	-		\$324	
4	None	4,380	2	2	LDL	HPS to LEDL	L-HID		343	-	0.69	4,003	1,003	3,000	3,000	2	HL7T2A	\$226/ea (Fixt.)	-		\$452	
			40	40							7.38	44,781	12,470	32,311	32,311						\$4,930	
																				Maximum Rebate / kWh:		\$0.15

Lighting Controls Data & Calculations

Line #	Fixture Input Line #	Hrs/Yr	% Hours Reduced	Reduced Hrs/Yr	Control Type	# of Fixtures Controlled	Wattage Controlled / Fixture	kW (Load) Controlled	(E) kWh/Yr (Use)	(P) kWh/Yr (Use)	kWh/Yr Savings	HVAC Adjusted kWh/Yr Savings	Qty	Controls Code	Controls Rebate / Fixture	# of Fixtures Remaining (Non-Controlled)	Controls Rebate Amount
A	Input #													C			
B	Input #													C			
C	Input #													C			

Notes: